

United States of America
Department of Transportation -- Federal Aviation Administration
Supplemental Type Certificate

Number SA02288AK

This Certificate issued to

Burl's Aircraft Rebuild, LLC
PO Box 671487
Chugiak, Alaska 99567-1487

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 23 of the Federal Aviation Regulations.

Original Product— Type Certificate Number: A22NM

Make: Aviat (Sky International)

Model: A-1, A-1A, A-1B, A-1C-180, A-1C-200

Description of Type Design Change: Installation of Alpha Omega Suspension System (AOSS) in place of original bungees in accordance with Alpha Omega Suspension System Master Drawing List BAR-18DL-A1/A1A/A1B/A1C Revision D, dated February 14, 2014, and Installation, Operation and Maintenance Instructions BAR18A1-H Revision H, dated February 14, 2014, or later FAA approved revision. Maintain in accordance with Installation, Operation and Maintenance Instructions BAR18A1-H Revision H, dated February 14, 2014, or later FAA approved revision.

Limitations and Conditions: This installation requires the installation of one of the following heavy duty 3 inch extended Super Cub style landing gear:

- a. Airframes Inc. STC SA02175AK,
- b. Cub Crafters CC-18 (Top Cub) Gear, Part number TC4003-001/002, or
- c. F. Atlee Dodge STC SA02152AK.

1. Either 1½ inch or 1¼ axle diameters are approved provided that the axle reinforcement is installed in the 1¼ inch axle, and the appropriate changes are made to accommodate the wheels and brakes for 1½ inch axles per the installation instructions. See the installation instructions for clarifications of axle sleeve installation requirements for 1¼ axles.

2. This modification also requires the installation of a standard width Super Cub style vee cabane, Airframes inc. part number AF30602, F. Atlee Dodge P/N 3166-1 per STC SA4618NM or Cub Crafters, Inc. CC-18 (Top Cub) P/N TC4006-001.

3. Compatibility of this design change with previously approved modifications must be determined by the installer.

4. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

5. The BAR18-2 AOSS Unit is a lower initial stiffness version of the BAR18 unit and is interchangeable. Mixing the BAR18 and the BAR18-2 units on the same aircraft is not approved.

6. This STC is compatible with F. Atlee Dodge Check Cable STC SA02189AK (See installation instructions).

7. This STC is eligible for installation on aircraft previously modified in accordance with Sky International Service Letter Number 3 increasing the gross weight of certain A-1B aircraft.

Date of application: January 6, 2006

Date of issuance: April 26, 2007

Date reissued:

Date amended: June 22, 2012; April 24, 2014



By direction of the Administrator

(Signature)

August A. Asay
Manager, Anchorage Aircraft Certification Office

(Title)